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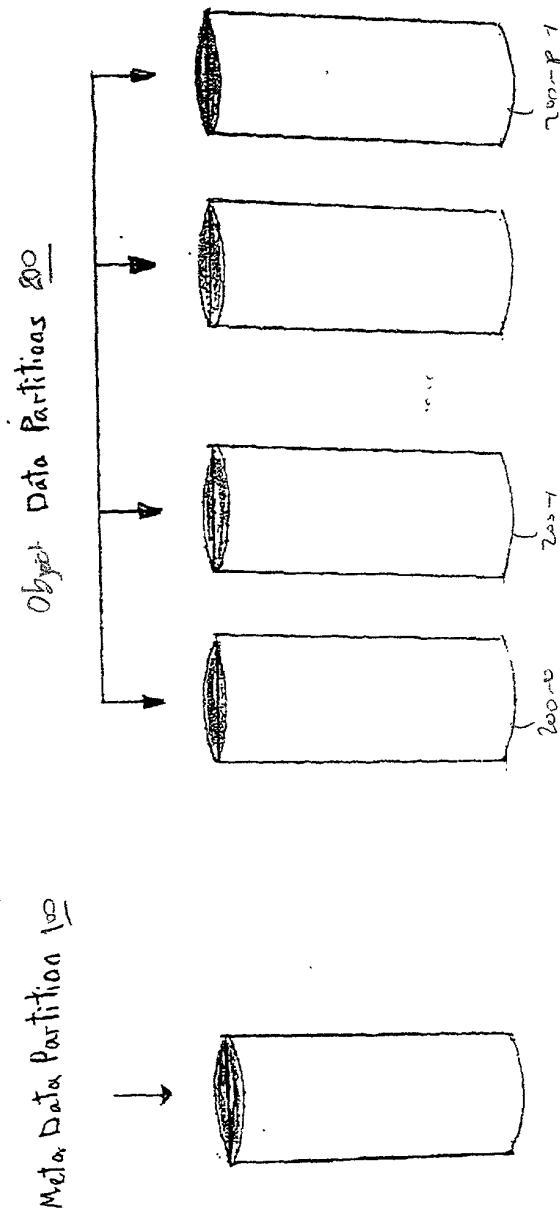


Fig.2.

FIG. 3 is a block diagram of a meta data partition structure. The structure is divided into three main sections: a Superblock Header (104), Per Partition Information (106), and Directory Information (120). The Superblock Header (104) is further divided into a Superblock Header (104) and a Superblock (102). The Per Partition Information (106) is further divided into a Per Partition Information (106) and a Directory Information (120). The Directory Information (120) is further divided into a Directory Information (120) and a Directory Information (120). The structure is also labeled as Meta Data Partition 100.

Details of Meta Data Partition

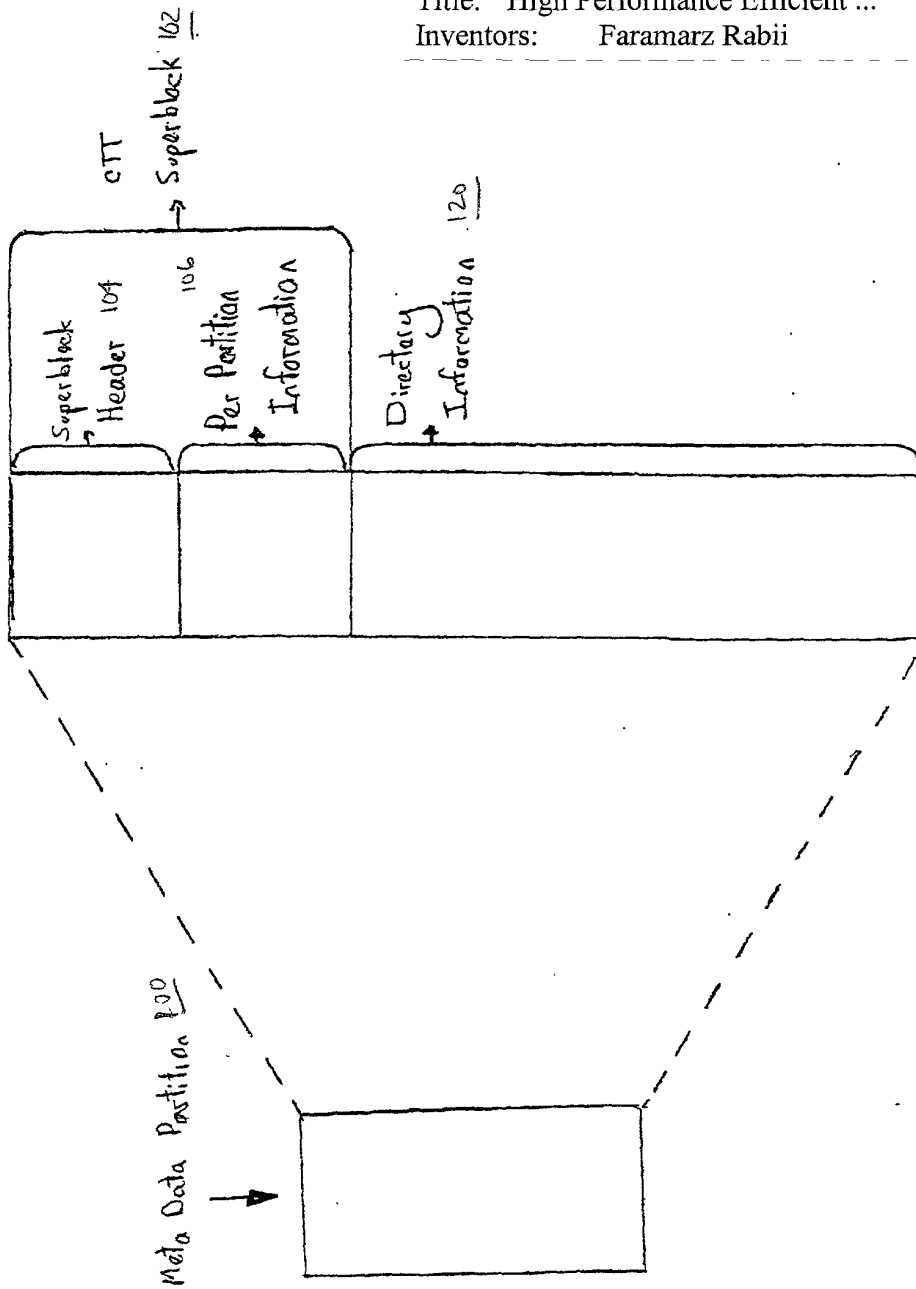


FIG. 3

# DETAILS OF SUPERBLOCK

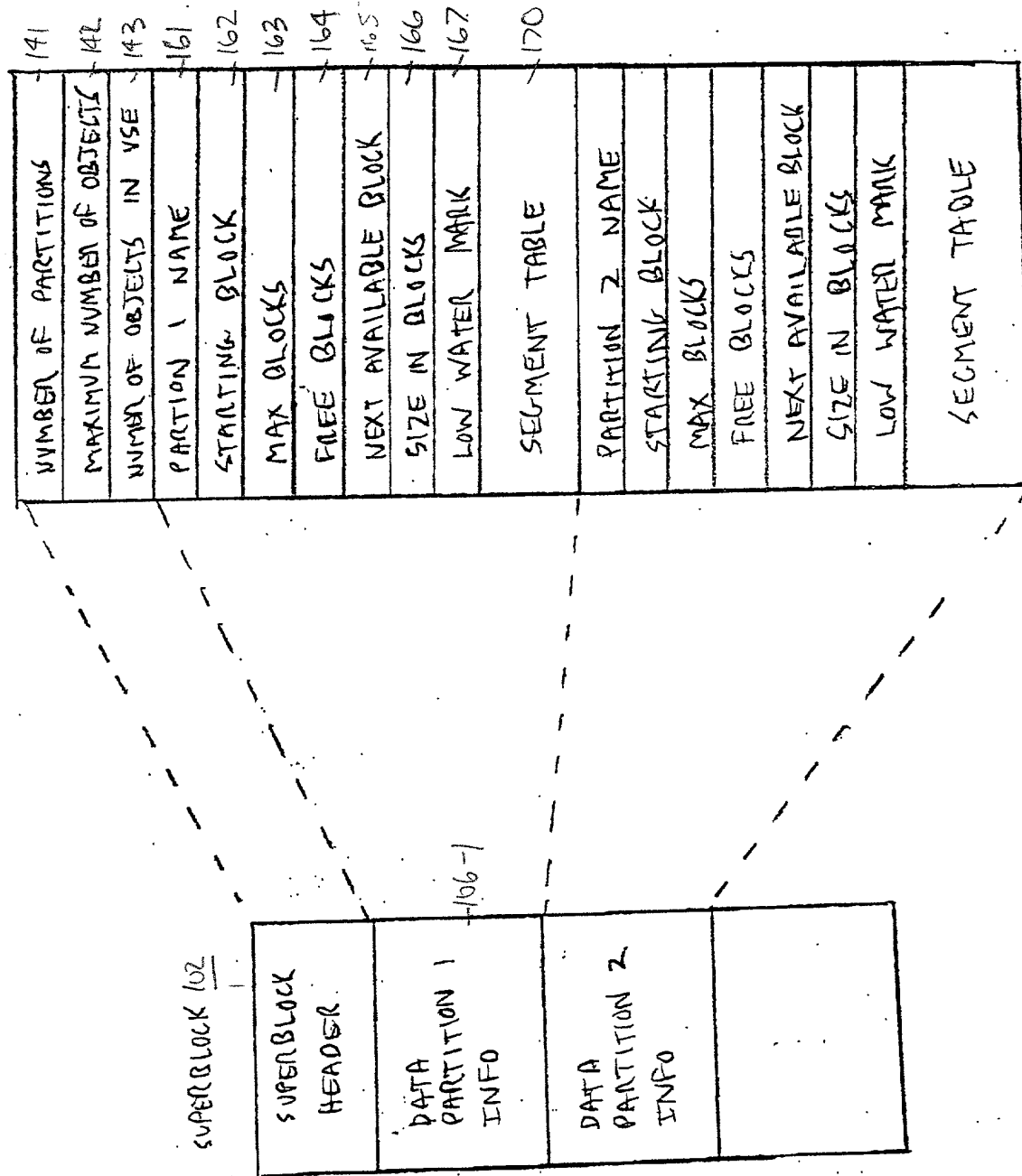


FIG. 4

200  
DATA PARTITION LAYOUT

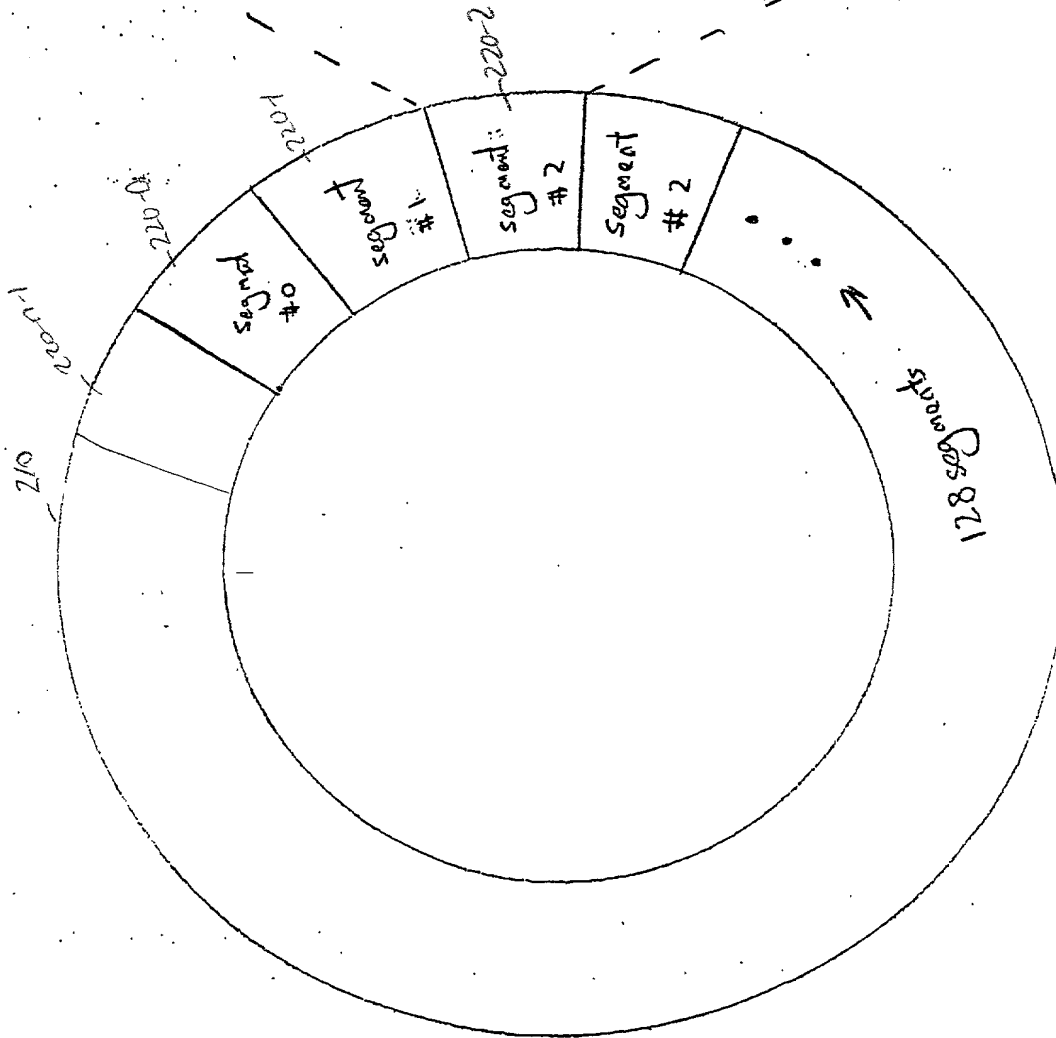
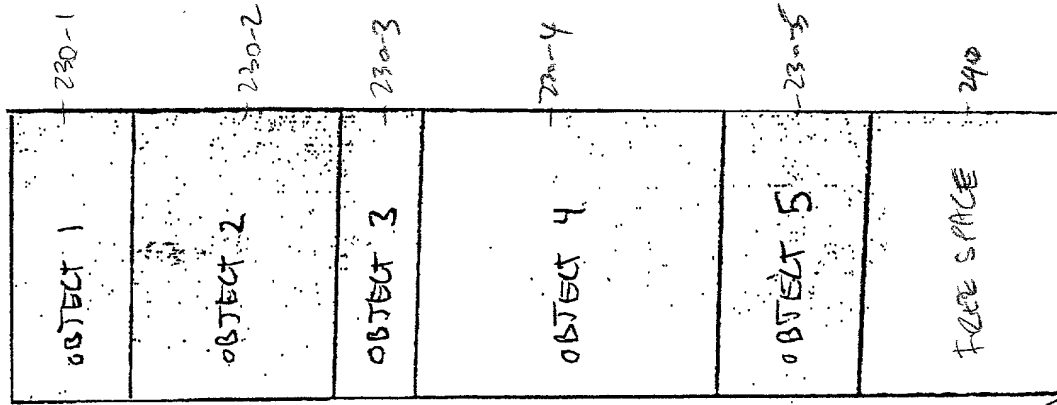


FIG. 5

## Details of a Data Object 220

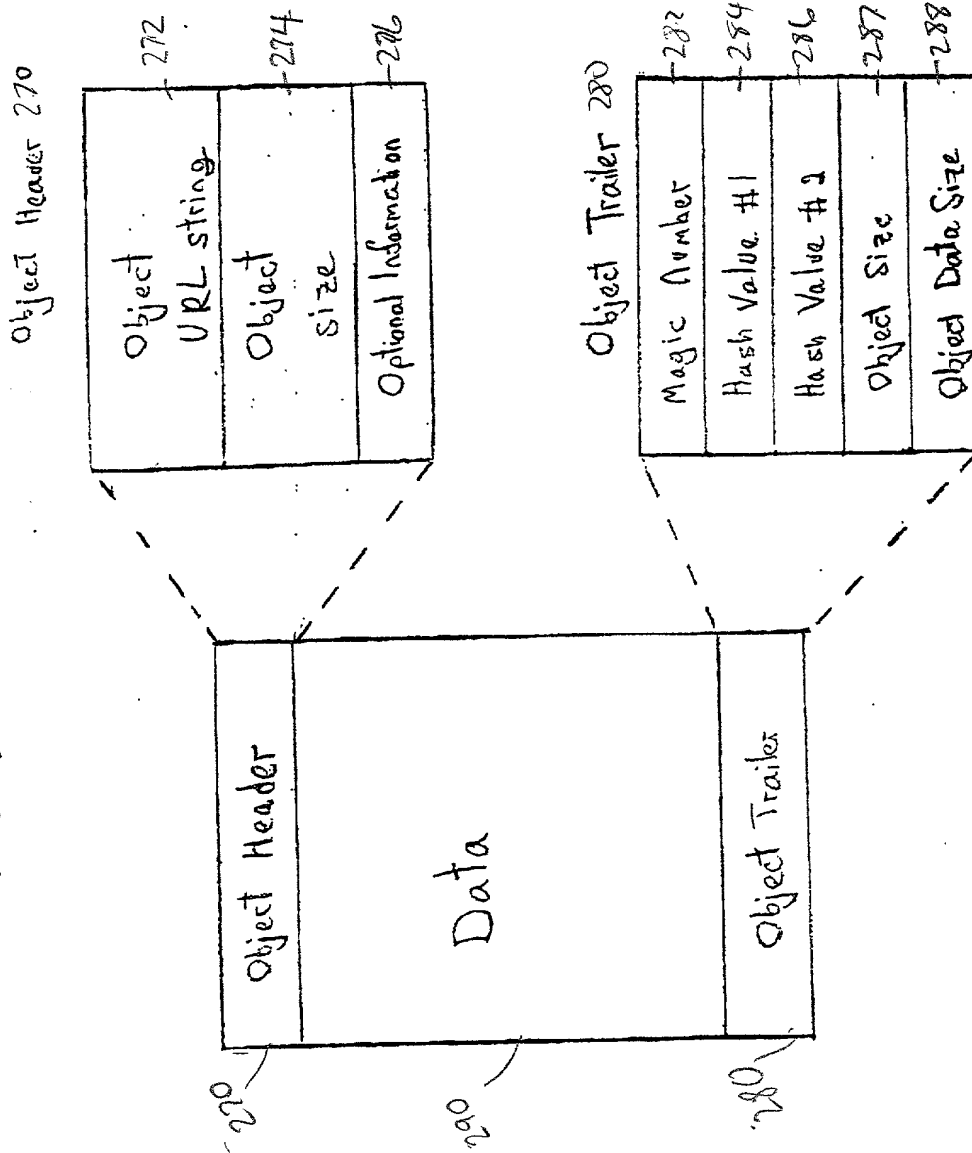


FIG 6

URL  
is turned  
into a 56 bit  
hash value

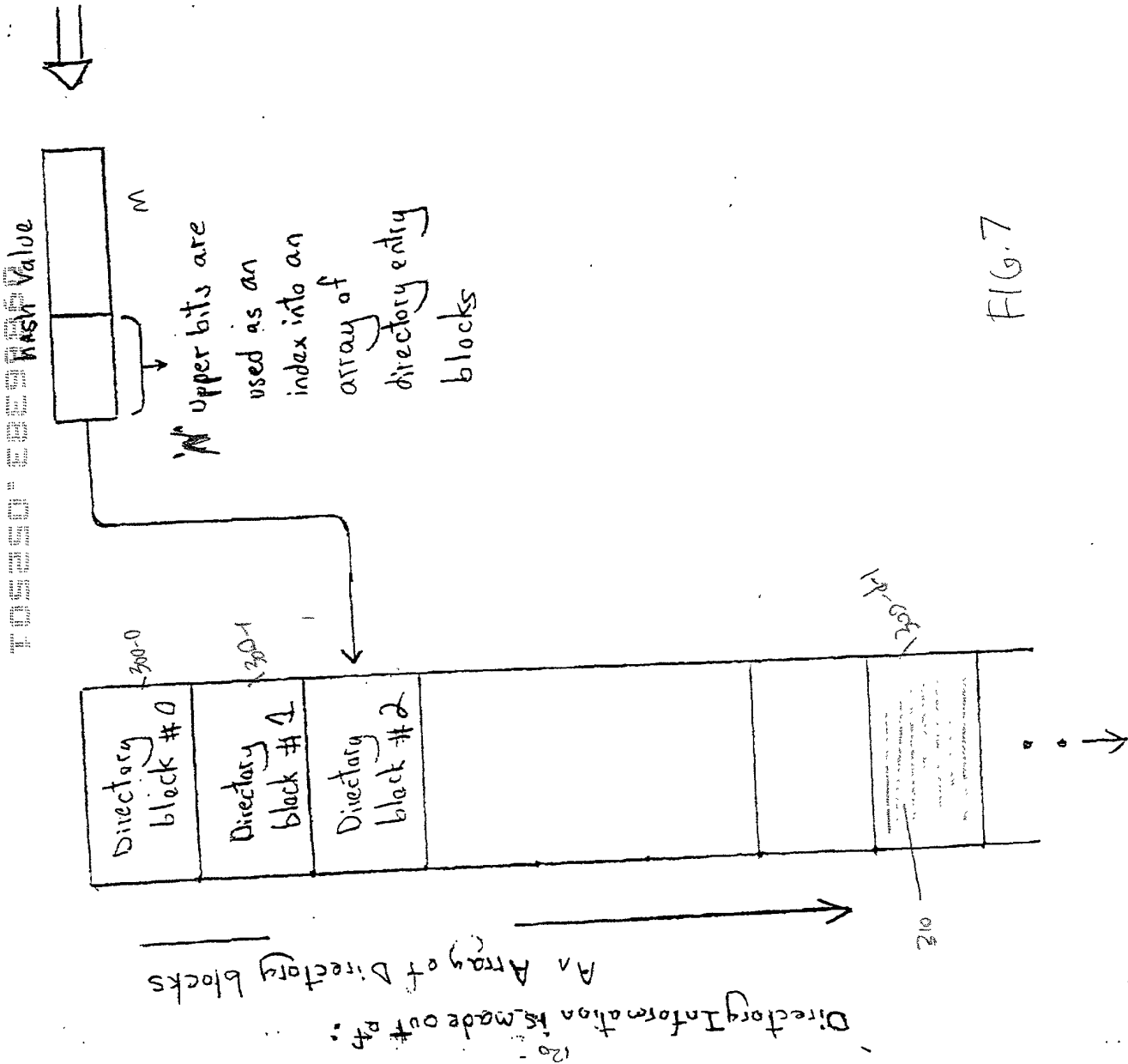


FIG. 7

FIG. 8 is a block diagram of a memory object structure. The diagram shows a memory object 500, a directory block 300, and a directory entry 310. The memory object 500 contains fields for hash value, data buffers, locks, write flags, which disk, starting block, disk size, read size, url size, status, references, directory info, creation date, expiration date, and last modification. The directory block 300 contains fields for capacity, used, entry 1, entry 2, entry 3, entry 30, and padding. The directory entry 310 contains fields for hash value, which disk, starting block, size, creation date, expiration date, last modification, and memory info. A dashed line connects the memory info field of the directory entry 310 to the memory object 500. An arrow points from the memory object 500 to the memory info field of the directory entry 310 with the text: link is valid only for active objects that are open on in-memory.

MEMORY OBJECT 500

HASH VALUE	501
DATA BUFFERS	502
LOCKS	503
WRITE FLAGS	504
WHICH DISK	505
STARTING BLOCK	506
DISK SIZE	507
READ SIZE	508
URL SIZE	509
STATUS	510
REFERENCES	511
DIRECTORY INFO	512
CREATION DATE	513
EXPIRATION DATE	514
LAST MODIFICATION	515

DIRECTORY ENTRY 310

HASH VALUE	311
WHICH DISK	312
STARTING BLOCK	313
SIZE	314
CREATION DATE	315
EXPIRATION DATE	316
LAST MODIFICATION	317
MEMORY INFO	318

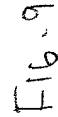
link is valid only  
 for active objects  
 that are open  
 on in-memory

DIRECTORY BLOCK 300

CAPACITY	301
USED	302
ENTRY 1	303
ENTRY 2	304
ENTRY 3	305
ENTRY 30	306
PADDING	307

FIG. 8





### Details of Partition 0

Data Structures involved in an open object

Per "open" Object Descriptor

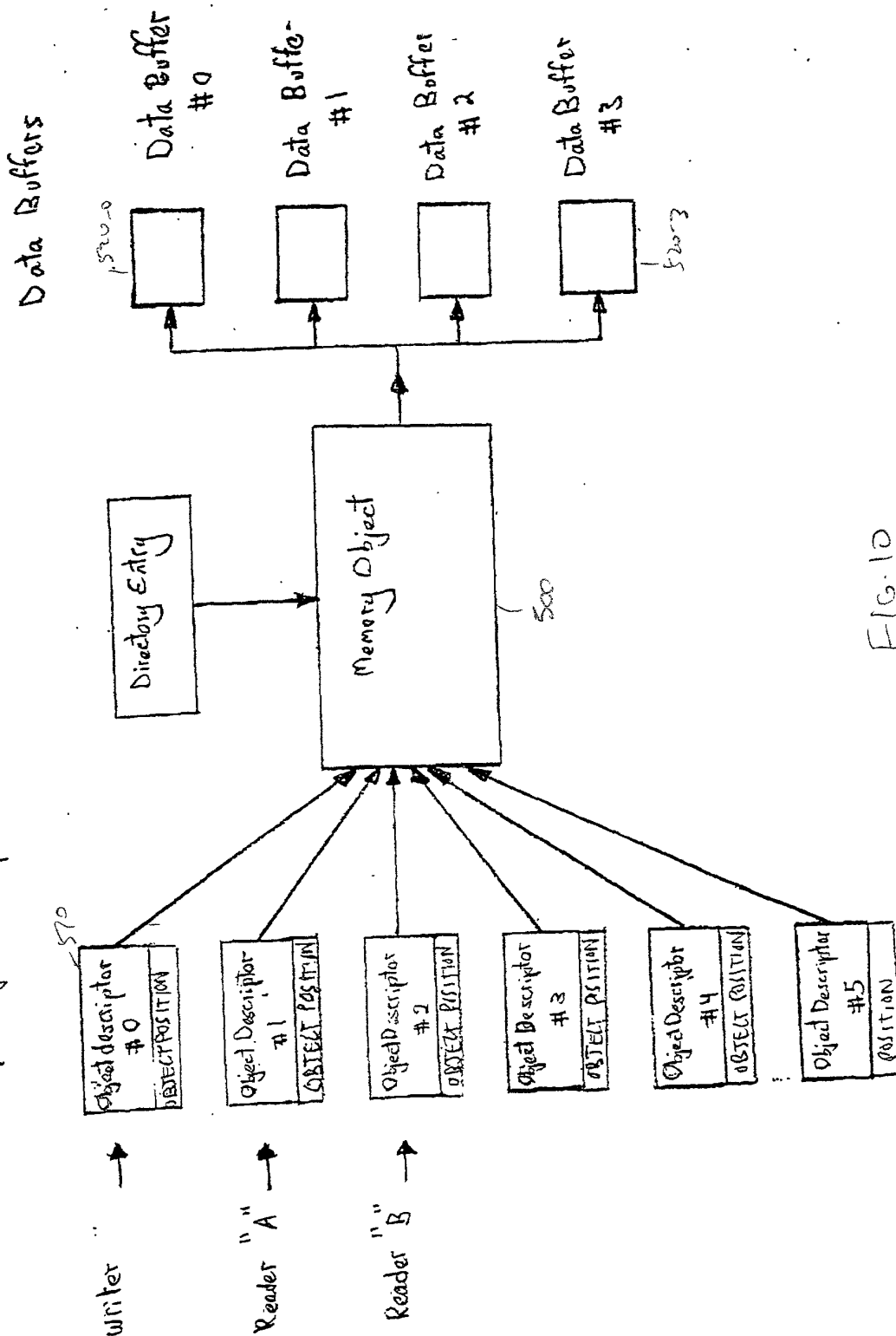


FIG. 10